Index of Claims

| Δ | \ppli | cat | ion/ | 'Contr | ol No |
|---|-------|-----|------|--------|-------|
|   |       |     |      |        |       |

10/688,000 Examiner

Thanh Y. Tran

Applicant(s)/Patent under Reexamination

FURUMIYA ET AL.

Art Unit

2822

| √  | Rejected |
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| 11 | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
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| 0 | Objected |

| Cla                    | aim Date |         |                 |          |                  | Claim Date   |              |  |                |                 |          | :::::    | Cla       | aim      | Date     |          |          |         |              |                         |              |                |            |          |          |          |          |          |          |                 |          |          |
|------------------------|----------|---------|-----------------|----------|------------------|--------------|--------------|--|----------------|-----------------|----------|----------|-----------|----------|----------|----------|----------|---------|--------------|-------------------------|--------------|----------------|------------|----------|----------|----------|----------|----------|----------|-----------------|----------|----------|
|                        |          |         |                 |          | П                |              | П            |  | П              | I               |          |          |           |          |          |          |          | T       | Т            |                         |              |                |            |          |          |          |          |          |          | П               | $\neg$   | コ        |
| Final                  | Original | 1/28/05 |                 |          |                  |              | l            |  |                |                 | Final    | Original |           |          |          |          | ı        |         |              |                         |              | Final          | Original   |          |          |          |          |          |          |                 | - 1      | ı        |
| iĒ                     | Ĕ        | 12      | l               |          |                  |              |              |  |                |                 | 這        | , j      |           |          |          |          |          |         |              |                         |              | ι <del>Ξ</del> | , ji       |          | :        |          |          |          |          |                 | - 1      |          |
|                        |          | L       |                 |          |                  |              |              |  |                | L               |          |          |           |          |          | $\bot$   | $\bot$   |         |              |                         |              |                |            |          |          |          |          |          |          |                 |          |          |
|                        | 1        | +       | L_              | _        | _                |              | 1            |  |                | <u> </u>        |          | 51       |           | $\perp$  | $ \bot $ |          |          |         |              | $\perp$                 |              |                | 101        |          |          |          |          |          |          |                 |          |          |
|                        | 2        | +       | <u> </u>        | <u> </u> | ┖                | _            | _            | $oxed{oxed}$                                     | <u> </u>       | $oxed{oxed}$    |          | 52       | Щ         | $\perp$  | _        | _        |          | _       | $\bot$       | 丄                       |              |                | 102        |          |          |          |          |          |          |                 |          |          |
|                        | 3        | +       | L.              | _        | _                | <u> </u>     | <u> </u>     | <u> </u>   | <u> </u>       |                 |          | 53       |           | _        | 4        | _        | _        | _       | 4            | —                       |              |                | 103        | L        |          |          | _        |          |          | $\perp$         | _        | $\Box$   |
|                        | 4        | +       | _               | <u> </u> | ┡                | L            | _            | ╄  | $\vdash$       |                 |          | 54       | $\sqcup$  | _        | _        | 4        | _        | _       | _            |                         |              |                | 104        |          | $\dashv$ | _        |          |          |          | _               | _        | Ц        |
|                        | 5        | +       |                 | _        | ┡                | <u> </u>     | ļ_           | ▙  | -              | ļ               |          | 55       |           | -        | 4        | $\perp$  | _        | +       | $\perp$      | +                       |              |                | 105        |          | $\Box$   | _        |          |          |          | -               | _        | _        |
|                        | 6        | ÷       | -               | _        | ┝                | <del> </del> | ├            | ╀  | ┼              | ├_              |          | 56       | $\square$ | $\dashv$ | $\dashv$ | +        | $\dashv$ | +       | +            | +-                      |              |                | 106        | Ш        | $\dashv$ | _        |          |          | _        |                 | $\dashv$ | 4        |
|                        | 7        | +       | $\vdash$        | -        | ⊬                | <del> </del> | <del> </del> | ╄  | ╁              | H               |          | 57       | H         | -+       |          | $\dashv$ | -        | +       | +            | +-                      |              |                | 107        |          |          | -        | _        |          | Н        | -               | $\dashv$ | $\dashv$ |
|                        | 8        | ÷       | $\vdash$        | _        | ├                | <b>-</b>     |              | -  | +              | $\vdash$        | $\vdash$ | 58<br>59 | $\vdash$  | -        |          | -+       | +        | +       |              | +                       |              |                | 108        | -        | $\dashv$ | -        |          |          | -        | $\dashv$        | -        |          |
|                        | 10       | +       | $\vdash$        | -        | $\vdash$         | ⊢            | ┢            | ╁  | ┢              | $\vdash$        | <u> </u> | 60       |           | $\dashv$ | -        | +        | +        | +       | +            | +                       |              |                | 109<br>110 |          |          | $\dashv$ |          |          |          | $\dashv$        | $\dashv$ | $\dashv$ |
|                        | 11       | +       | -               | -        | ├                | ┢            | ┢            | ╁  | ┢              | $\vdash$        |          | 61       | $\vdash$  | $\dashv$ | $\dashv$ | +        | +        | +       | +            | +                       |              |                | 111        | $\vdash$ |          | $\dashv$ | -        |          | -        | -               | $\dashv$ | 긕        |
|                        | 12       | +       | -               |          | ╁                | $\vdash$     | $\vdash$     | $\vdash$   | ╁              | $\vdash$        | -        | 62       |           | +        | $\dashv$ | +        | +        | +       | +            |                         |              |                | 112        |          | $\dashv$ | $\dashv$ |          | -        |          | ᆉ               | +        | ᅱ        |
| $\vdash$               | 13       | +       | $\vdash$        |          | $\vdash$         | $\vdash$     | $\vdash$     | +  | +              | $\vdash$        | $\vdash$ | 63       | $\vdash$  | +        | +        | +        | +        | +       | +            | +                       |              |                | 113        | $\vdash$ | $\dashv$ | -        |          | $\vdash$ |          |                 | +        | $\dashv$ |
|                        | 14       | ÷       | Н               | -        | <del> </del>     | +-           | ┢            |  | +              | $\vdash$        |          | 64       | -         | $\dashv$ | $\dashv$ | +        | $\dashv$ | +       | +            | +                       |              |                | 114        | Н        | $\vdash$ | $\dashv$ |          | $\vdash$ | $\vdash$ | +               | +        | $\dashv$ |
| $\vdash$               | 15       | ÷       | Н               | $\vdash$ |                  | ╁            | t            | $\vdash$   | $\vdash$       | Н               |          | 65       | H         | $\dashv$ | 十        | $\dashv$ | +        | +       | +            | +                       |              |                | 115        | $\vdash$ | $\vdash$ | $\dashv$ | $\vdash$ | $\vdash$ | Н        | $\dashv$        | $\dashv$ | $\dashv$ |
|                        | 16       | +       | П               |          | l                | 1            | $\vdash$     | I  | +-             | Н               |          | 66       |           | -+       |          | _        | +        | +       | +            | +                       |              |                | 116        | $\vdash$ |          | $\dashv$ |          |          | Н        | _               | $\dashv$ | ᅱ        |
|                        | 17       | +       | Н               |          |                  | T            | 1            | T  | †              | П               |          | 67       | H         | $\dashv$ |          | 十        | $\dashv$ | +       | +            | $\top$                  |              |                | 117        | Н        |          |          | $\dashv$ | $\vdash$ | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$ |
|                        | 18       | +       |                 |          |                  | <u> </u>     | $\vdash$     | $\vdash$   | 1              |                 |          | 68       |           | $\neg$   |          | _        | 十        | ╅       | $\dagger$    | T                       |              |                | 118        |          |          |          |          |          |          |                 | $\dashv$ | ᅥ        |
|                        | 19       | +       | Н               |          | -                |              | ┢            |  | T              | T               |          | 69       |           | ヿ        | +        |          | $\top$   | +       | $\top$       |                         |              |                | 119        |          |          |          |          |          |          | $\dashv$        | 十        | ᅥ        |
|                        | 20       | +       |                 |          |                  |              | T            |  | Ī              |                 |          | 70       | П         | 寸        | $\top$   | T        | T        | $\top$  | $\top$       | 1                       |              |                | 120        |          |          | $\dashv$ |          |          |          | 寸               | $\dashv$ | ヿ        |
|                        | 21       | +       | П               |          |                  |              |              |  | Т              |                 |          | 71       |           | T        | T        | T        | 7        | T       | $\top$       | _                       |              |                | 121        |          | ヿ        | 一        |          |          |          |                 | $\dashv$ | ヿ        |
|                        | 22       | +       |                 |          |                  |              |              | Π  | 1              |                 |          | 72       | П         |          |          | T        |          |         |              |                         |              |                | 122        |          | ヿ        | $\neg$   |          |          |          | $\neg \uparrow$ | $\neg$   | ヿ        |
|                        | 23       | +       |                 |          |                  |              |              |  |                | П               |          | 73       |           | T        |          | T        | Ī        | T       |              | 1                       |              |                | 123        |          |          |          |          | $\neg$   |          | ╛               | 1        | ヿ        |
|                        | 24       |         |                 |          |                  |              |              |  |                |                 |          | 74       | П         | T        | T        | T        |          | $\top$  | Τ            |                         |              |                | 124        |          |          |          |          |          |          | 寸               | ヿ        |          |
|                        | 25       |         |                 |          |                  |              |              |  |                |                 |          | 75       |           |          |          | T        |          | $\top$  | Т            | 1                       |              |                | 125        |          |          |          |          |          |          |                 |          |          |
|                        | 26       |         |                 |          |                  |              |              |  |                |                 |          | 76       |           |          |          |          |          |         | $oxed{\Box}$ |                         |              |                | 126        |          |          |          |          |          |          |                 |          |          |
|                        | 27       |         |                 |          | _                | <u> </u>     | L            |  |                |                 |          | 77       |           |          | $\perp$  |          | ┙        |         | 丄            | Ш                       |              |                | 127        |          |          |          |          |          |          |                 |          |          |
|                        | 28       |         |                 |          |                  |              | ļ            | <u> </u>   |                |                 |          | 78       | Ш         |          |          |          | $\perp$  | $\perp$ | $\perp$      | $\perp$                 |              |                | 128        |          |          |          |          |          |          |                 |          |          |
| LI                     | 29       |         |                 |          | _                |              |              | <u> </u>   | <u> </u>       | Ш               |          | 79       | Ц         | _        | _        | _        | _        | $\perp$ | $\perp$      | 44                      |              |                | 129        |          |          | [        |          | _        |          |                 |          |          |
|                        | 30       |         |                 |          |                  | _            | <u> </u>     | L  | ļ              | $\square$       | _        | 80       | $\sqcup$  |          |          | _ _      | 4        | _       | $\perp$      | $\perp$                 |              |                | 130        |          | _        | _        |          | _        |          |                 | _        | _        |
|                        | 31       |         | $\dashv$        |          |                  | <u> </u>     | _            | <u> </u>   | ┞-             | Щ               |          | 81       | $\dashv$  | 4        | 4        | _        | 4        |         |              | Ш                       |              |                | 131        |          | $\dashv$ | _        |          | _        |          | _               | _        | ᆜ        |
|                        | 32       | _       | _               |          | $\vdash$         |              | <u> </u>     | ⊢  | -              | Н               |          | 82       |           |          | _        | - -      | 4        | 4       | $\bot$       | $\perp$                 |              |                | 132        |          | _        | _        | _        | _        | _        | _               | _        | _        |
| $\vdash \vdash \vdash$ | 33       | _       | $\vdash \vdash$ | _        |                  | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$       | $\vdash \vdash$ | L        | 83       | $\vdash$  | $\dashv$ | -        | -        | - -      | - -     | 1            | +                       |              |                | 133        |          | _        | _        | _        | _        |          | _               |          | $\dashv$ |
| $\vdash$               | 34<br>35 | _       |                 |          | $\vdash$         | $\vdash$     | $\vdash$     | $\vdash$   | <del> </del> - | ├┤              |          | 84       | $\vdash$  | -+       | -+       | +        | +        | +       | +            | +                       |              |                | 134        | $\vdash$ | -        | -        | _        |          |          |                 | $\dashv$ | $\dashv$ |
| $\vdash$               | 36       | _       | -1              |          | H                | $\vdash$     | ⊢            |  | +-             | $\vdash$        |          | 85<br>86 | $\vdash$  | +        | -+       |          | $\dashv$ | +       | +            | +                       |              |                | 135        |          | -        | -        | $\dashv$ |          |          | -               | +        | $\dashv$ |
| $\vdash$               | 37       |         |                 | _        | $\vdash$         | $\vdash$     | $\vdash$     |  | ┼-             | $\vdash$        |          | 87       | -+        | -+       |          |          | +        | +       | +            | +                       |              |                | 136<br>137 | $\dashv$ | $\dashv$ | -        | -        |          | -        | $\dashv$        | +        | $\dashv$ |
| $\vdash$               | 38       | -       | $\dashv$        |          | $\vdash$         | H            |              | $\vdash$   | ╁              | $\vdash$        |          | 88       | $\dashv$  | $\dashv$ | $\dashv$ | -+-      |          | +       | +            | +                       | ::::         |                | 137        |          | -        |          |          |          | $\dashv$ | $\dashv$        | +        | $\dashv$ |
| $\vdash$               | 39       |         | -               | _        | <del>  -  </del> | Н            | $\vdash$     |  | $\vdash$       | $\vdash \dashv$ |          | 89       | $\vdash$  | $\dashv$ | +        | +        | +        | +       | ╁            | +                       | <b>     </b> |                | 139        | $\dashv$ | -+       | $\dashv$ | {        |          |          | $\dashv$        | +        | $\dashv$ |
|                        | 40       |         |                 | _        |                  | -            | $\vdash$     | $\vdash$   |                | Н               |          | 90       | $\dashv$  | $\dashv$ | +        | +        | +        | +       | +-           | +                       | <b>     </b> |                | 140        | $\dashv$ | $\dashv$ | $\dashv$ | -        |          | +        | -+              | +        | $\dashv$ |
| -                      | 41       | -       |                 |          | H                |              | $\vdash$     | $\vdash$   | $\vdash$       | H               |          | 91       | $\dashv$  | $\dashv$ | $\dashv$ |          | $\dashv$ | +       | +            | +                       |              |                | 141        | -        | $\dashv$ | $\dashv$ | -        | -        |          | $\dashv$        | +        | $\dashv$ |
|                        | 42       |         | $\dashv$        | _        | Н                |              | Н            |  | $\vdash$       | H               |          | 92       | $\dashv$  | $\dashv$ | +        | 十        | +        | $\top$  | +            | +                       |              |                | 142        | $\dashv$ | -+       | $\dashv$ | $\dashv$ | $\dashv$ | -        | -+              | +        | $\dashv$ |
|                        | 43       |         | _               | _        | М                |              |              |  | П              | Н               |          | 93       | -         | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\top$  | +            | +                       |              |                | 143        | $\dashv$ | $\dashv$ | +        | -        | $\dashv$ | $\dashv$ | $\dashv$        | 十        | $\dashv$ |
|                        | 44       |         | $\neg$          | _        | П                | $\neg \neg$  |              | Г  |                | Н               |          | 94       | 7         | $\dashv$ | +        | $\top$   | 十        | $\top$  | $\dagger$    | $\forall$               |              | <u> </u>       | 144        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\dashv$        | 十        | $\dashv$ |
|                        | 45       |         |                 |          | П                |              | $\Box$       | <del>                                     </del> |                | П               |          | 95       | $\dashv$  | $\dashv$ | $\top$   | $\top$   | $\top$   | $\top$  | $\top$       | $\vdash$                |              |                | 145        | 7        | $\dashv$ | _        | +        | _        | _        |                 | 十        | ㅓ        |
|                        | 46       |         |                 |          | П                |              |              |  |                | П               | $\neg$   | 96       | $\dashv$  | $\neg$   | 1        | +        | +        | $\top$  | $\top$       | $\dagger \lnot \dagger$ |              |                | 146        | 一        | 7        | -        | 一        | _        | -        |                 | 十        | ┨        |
|                        | 47       |         |                 |          |                  |              |              |  |                | П               |          | 97       | 一         | 丁        | $\top$   | ┪        | _        | $\top$  | T            | $\dagger \lnot$         |              |                | 147        | 一        | $\neg$   | _        | 寸        | $\dashv$ | 寸        | $\dashv$        | $\top$   | $\dashv$ |
|                        | 48       |         |                 |          |                  |              |              |  |                |                 |          | 98       |           | $\top$   | $\top$   |          | _        |         | Τ            |                         |              |                | 148        |          | $\neg$   | $\neg$   | $\neg$   | $\neg$   | 寸        | 寸               | 十        | ヿ        |
|                        | 49       |         |                 |          |                  |              |              |  |                | П               |          | 99       |           | $\dashv$ | $\neg$   | $\top$   | T        |         | T            | $\Box$                  |              |                | 149        |          | $\neg$   | $\dashv$ |          | $\neg$   | $\dashv$ | 寸               | 丁        | ヿ        |
|                        | 50       |         |                 |          |                  |              |              |  |                |                 |          | 100      |           | T        | $\top$   | T        | T        | Т       | Т            | П                       |              |                | 150        | $\neg$   | T        |          |          |          | T        |                 | $\neg$   | ヿ        |